

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.

Application Serial Number: 10/594,266
Source: IFWP
Date Processed by STIC: 10/10/06

ENTERED

CRF Errors Edited by the STIC Systems Branch

Serial Number: 10/594,266

CRF Edit Date: 10/10/06
Edited by: [signature]

___ Realigned nucleic acid/amino acid numbers/text in cases where the sequence text "wrapped" to the next line

___ Corrected the SEQ ID NO. Sequence numbers edited were:

___ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

___ Deleted: ___ invalid beginning/end-of-file text ; ___ page numbers

___ Inserted mandatory headings/numeric identifiers, specifically:

___ Moved responses to same line as heading/numeric identifier, specifically:

✓
___ Other: globally corrected spelling of "sapiens"



IFWP

RAW SEQUENCE LISTING

DATE: 10/10/2006

PATENT APPLICATION: US/10/594,266

TIME: 14:53:51

Input Set : N:\AMC\594266.txt

Output Set: N:\CRF4\10102006\J594266.raw

3 <110> APPLICANT: Takeda Pharmaceutical Company Limited
 5 <120> TITLE OF INVENTION: PREVENTIVE/REMEDY FOR RESPIRATORY DISEASES
 7 <130> FILE REFERENCE: G06-0052
 C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/594,266
 C--> 9 <141> CURRENT FILING DATE: 2006-09-26
 9 <150> PRIOR APPLICATION NUMBER: JP2004-092064
 10 <151> PRIOR FILING DATE: 2004-03-26
 12 <160> NUMBER OF SEQ ID NOS: 73
 14 <210> SEQ ID NO: 1
 15 <211> LENGTH: 816
 16 <212> TYPE: DNA
 17 <213> ORGANISM: Homo sapiens
 19 <400> SEQUENCE: 1
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 21 cagccccctct gggaccacct gaggagctgg gaggccctcc tacagtcgcc cttcttcccg 120
 22 gtcattcttct ccatcaccac atacgtgggc ttttgctgctg ccttcgtggt cctggatatc 180
 23 ctgtgctcct gggtgcccgc cctgcggcgc tacaagatcc accctgactt ctcgccatcc 240
 24 gcgcagcagc tgctaccttg cctggggcag accctctacc agcatgtgat gtttgtgttc 300
 25 cccgtgacgc tgctgcattg ggcccgcagc ccggccctcc tgccccacga agctcccag 360
 26 ctgctcctgc tgctgcacca catcctgttc tgctgtctac tcttcgacat ggagttcttc 420
 27 gtgtggcacc tgctgcacca caaggtgccc tggtgtgacc gcacctcca caaggtgcac 480
 28 caccagaact cgtctctggt cgcgtggca acgcagtata tgagcgtctg ggaactgttt 540
 29 tctttgggct tcttcgacat gatgaacgtc aactgtctcg ggtgccacc gctcaccacc 600
 30 ctgaccttcc acgtggtcaa catctggctt tccgtggagg accactccgg ctacaacttc 660
 31 ccttggtcca ctcacagact ggtgcccttc gggtggtacg ggggtgtggt gcaccacgac 720
 32 ctgcatcact ctcactttaa ctgcaacttc gctccgtact ttacacactg ggacaaaata 780
 33 ctgggaacgc tgcggactgc atctgtccca gcgcgg 816
 35 <210> SEQ ID NO: 2
 36 <211> LENGTH: 272
 37 <212> TYPE: PRT
 38 <213> ORGANISM: Homo sapiens
 40 <400> SEQUENCE: 2
 41 Met Ser Cys His Asn Cys Ser Asp Pro Gln Val Leu Cys Ser Ser Gly
 42 5 10 15
 43 Gln Leu Phe Leu Gln Pro Leu Trp Asp His Leu Arg Ser Trp Glu Ala
 44 20 25 30
 45 Leu Leu Gln Ser Pro Phe Phe Pro Val Ile Phe Ser Ile Thr Thr Tyr
 46 35 40 45
 47 Val Gly Phe Cys Leu Pro Phe Val Val Leu Asp Ile Leu Cys Ser Trp
 48 50 55 60
 49 Val Pro Ala Leu Arg Arg Tyr Lys Ile His Pro Asp Phe Ser Pro Ser
 50 65 70 75 80
 51 Ala Gln Gln Leu Leu Pro Cys Leu Gly Gln Thr Leu Tyr Gln His Val

RAW SEQUENCE LISTING

DATE: 10/10/2006

PATENT APPLICATION: US/10/594,266

TIME: 14:53:51

Input Set : N:\AMC\594266.txt

Output Set : N:\CRF4\10102006\J594266.raw

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52          85          90          95
53 Met Phe Val Phe Pro Val Thr Leu Leu His Trp Ala Arg Ser Pro Ala
54          100          105          110
55 Leu Leu Pro His Glu Ala Pro Glu Leu Leu Leu Leu His His Ile
56          115          120          125
57 Leu Phe Cys Leu Leu Leu Phe Asp Met Glu Phe Phe Val Trp His Leu
58          130          135          140
59 Leu His His Lys Val Pro Trp Leu Tyr Arg Thr Phe His Lys Val His
60 145          150          155          160
61 His Gln Asn Ser Ser Ser Phe Ala Leu Ala Thr Gln Tyr Met Ser Val
62          165          170          175
63 Trp Glu Leu Phe Ser Leu Gly Phe Phe Asp Met Met Asn Val Thr Leu
64          180          185          190
65 Leu Gly Cys His Pro Leu Thr Thr Leu Thr Phe His Val Val Asn Ile
66          195          200          205
67 Trp Leu Ser Val Glu Asp His Ser Gly Tyr Asn Phe Pro Trp Ser Thr
68          210          215          220
69 His Arg Leu Val Pro Phe Gly Trp Tyr Gly Gly Val Val His His Asp
70 225          230          235          240
71 Leu His His Ser His Phe Asn Cys Asn Phe Ala Pro Tyr Phe Thr His
72          245          250          255
73 Trp Asp Lys Ile Leu Gly Thr Leu Arg Thr Ala Ser Val Pro Ala Arg
74          260          265          270
76 <210> SEQ ID NO: 3
77 <211> LENGTH: 924
78 <212> TYPE: DNA
79 <213> ORGANISM: Homo sapiens
81 <400> SEQUENCE: 3
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83 ctctcgtggc tgccgcatgg gggcgccctg tctctggccg aggcgagccg cgcaagtttc 120
84 ccgggaccct cagagttgca ctccgaagac tccagattcc gagagttgcg gaaacgctac 180
85 gaggacctgc taaccaggct gcgggccaac cagagctggg aagattcgaa caccgacctc 240
86 gtcccgggcc ctgcagtcgc gatactcacg ccagaagtgc ggctgggacg cggcggccac 300
87 ctgcacctgc gtatctctcg ggccgcccct cctgaggggc tccccgaggc ctcccgccct 360
88 caccgggctc tgttcgggct gtccccgacg gcgtcaaggt cgtgggacgt gacacgaccg 420
89 ctgcggcgct agctcagcct tgcaagaccc caggcgcccg cgctgcacct gcgactgtcg 480
90 ccgccgccgt cgcagtcgga ccaactgctg gcagaatctt cgtccgcacg gccccagctg 540
91 gagttgcact tgcggccgca agccgccagg gggcgccgca gagcgcgctg gcgcaacggg 600
92 gaccactgtc cgctcggggc cgggcgttgc tgccgtctgc acacgggtccg cgcgtcgctg 660
93 gaagacctgg gctggggcga ttgggtgctg tcgccacggg aggtgcaagt gacctgtgct 720
94 atcggcgcgt gcccgagcca gttccgggcy gcaaacatgc acgcgagat caagacgagc 780
95 ctgcaccgcc tgaagcccgca cacggtgcca gcgcctgct gcgtgcccgc cagctacaat 840
96 cccatggtgc tcattcaaaa gaccgacacc ggggtgtcgc tccagacctg tgatgacttg 900
97 ttagccaaag actgccactg cata 924
99 <210> SEQ ID NO: 4
100 <211> LENGTH: 308
101 <212> TYPE: PRT
102 <213> ORGANISM: Homo sapiens
104 <400> SEQUENCE: 4

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RAW SEQUENCE LISTING

DATE: 10/10/2006

PATENT APPLICATION: US/10/594,266

TIME: 14:53:51

Input Set : N:\AMC\594266.txt

Output Set: N:\CRF4\10102006\J594266.raw

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105 Met Pro Gly Gln Glu Leu Arg Thr Leu Asn Gly Ser Gln Met Leu Leu
106           5           10           15
107 Val Leu Leu Val Leu Ser Trp Leu Pro His Gly Gly Ala Leu Ser Leu
108           20           25           30
109 Ala Glu Ala Ser Arg Ala Ser Phe Pro Gly Pro Ser Glu Leu His Ser
110           35           40           45
111 Glu Asp Ser Arg Phe Arg Glu Leu Arg Lys Arg Tyr Glu Asp Leu Leu
112           50           55           60
113 Thr Arg Leu Arg Ala Asn Gln Ser Trp Glu Asp Ser Asn Thr Asp Leu
114 65           70           75           80
115 Val Pro Ala Pro Ala Val Arg Ile Leu Thr Pro Glu Val Arg Leu Gly
116           85           90           95
117 Ser Gly Gly His Leu His Leu Arg Ile Ser Arg Ala Ala Leu Pro Glu
118           100          105          110
119 Gly Leu Pro Glu Ala Ser Arg Leu His Arg Ala Leu Phe Arg Leu Ser
120           115          120          125
121 Pro Thr Ala Ser Arg Ser Trp Asp Val Thr Arg Pro Leu Arg Arg Gln
122           130          135          140
123 Leu Ser Leu Ala Arg Pro Gln Ala Pro Ala Leu His Leu Arg Leu Ser
124 145           150          155          160
125 Pro Pro Pro Ser Gln Ser Asp Gln Leu Leu Ala Glu Ser Ser Ser Ala
126           165          170          175
127 Arg Pro Gln Leu Glu Leu His Leu Arg Pro Gln Ala Ala Arg Gly Arg
128           180          185          190
129 Arg Arg Ala Arg Ala Arg Asn Gly Asp His Cys Pro Leu Gly Pro Gly
130           195          200          205
131 Arg Cys Cys Arg Leu His Thr Val Arg Ala Ser Leu Glu Asp Leu Gly
132           210          215          220
133 Trp Ala Asp Trp Val Leu Ser Pro Arg Glu Val Gln Val Thr Met Cys
134 225           230          235          240
135 Ile Gly Ala Cys Pro Ser Gln Phe Arg Ala Ala Asn Met His Ala Gln
136           245          250          255
137 Ile Lys Thr Ser Leu His Arg Leu Lys Pro Asp Thr Val Pro Ala Pro
138           260          265          270
139 Cys Cys Val Pro Ala Ser Tyr Asn Pro Met Val Leu Ile Gln Lys Thr
140           275          280          285
141 Asp Thr Gly Val Ser Leu Gln Thr Tyr Asp Asp Leu Leu Ala Lys Asp
142           290          295          300
143 Cys His Cys Ile
144 305
146 <210> SEQ ID NO: 5
147 <211> LENGTH: 621
148 <212> TYPE: DNA
149 <213> ORGANISM: Homo sapiens
151 <400> SEQUENCE: 5
152 atggctggac ctgccacca gagcccatg aagctgatgg ccctgcagct gctgctgtgg 60
153 cacagtgcac tctggacagt gcaggaagcc accccctgg gccctgccag ctccctgccc 120
154 cagagcttcc tgctcaagtg cttagagcaa gtgaggaaga tccagggcga tggcgagcgg 180
155 ctccaggaga agctggtgag tgagtgtgcc acctacaagc tgtgccaccc cgaggagctg 240

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RAW SEQUENCE LISTING

DATE: 10/10/2006

PATENT APPLICATION: US/10/594,266

TIME: 14:53:51

Input Set : N:\AMC\594266.txt

Output Set: N:\CRF4\10102006\J594266.raw

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156 gtgctgctcg gacactctct gggcatcccc tgggctcccc tgagcagctg cccagccag 300
157 gccctgcagc tggcaggctg cttgagccaa ctccatagcg gccttttcct ctaccagggg 360
158 ctccctgcagg ccctggaagg gatctccccc gagttgggtc ccaccttgga cactctgcag 420
159 ctggacgtcg ccgactttgc caccaccatc tggcagcaga tggaagaact gggaaatggcc 480
160 cctgccctgc agcccaccca gggtgccatg ccggccttcg cctctgcttt ccagcgcggg 540
161 gcaggagggg tcctggttgc ctcccatctg cagagcttcc tggaggtgtc gtaccgcgtt 600
162 ctacgccacc ttgcccagcc c 621

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164 <210> SEQ ID NO: 6

165 <211> LENGTH: 207

166 <212> TYPE: PRT

167 <213> ORGANISM: Homo sapiens

169 <400> SEQUENCE: 6

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170 Met Ala Gly Pro Ala Thr Gln Ser Pro Met Lys Leu Met Ala Leu Gln
171           5              10              15
172 Leu Leu Leu Trp His Ser Ala Leu Trp Thr Val Gln Glu Ala Thr Pro
173           20              25              30
174 Leu Gly Pro Ala Ser Ser Leu Pro Gln Ser Phe Leu Leu Lys Cys Leu
175           35              40              45
176 Glu Gln Val Arg Lys Ile Gln Gly Asp Gly Ala Ala Leu Gln Glu Lys
177           50              55              60
178 Leu Val Ser Glu Cys Ala Thr Tyr Lys Leu Cys His Pro Glu Glu Leu
179           65              70              75              80
180 Val Leu Leu Gly His Ser Leu Gly Ile Pro Trp Ala Pro Leu Ser Ser
181           85              90              95
182 Cys Pro Ser Gln Ala Leu Gln Leu Ala Gly Cys Leu Ser Gln Leu His
183           100             105             110
184 Ser Gly Leu Phe Leu Tyr Gln Gly Leu Leu Gln Ala Leu Glu Gly Ile
185           115             120             125
186 Ser Pro Glu Leu Gly Pro Thr Leu Asp Thr Leu Gln Leu Asp Val Ala
187           130             135             140
188 Asp Phe Ala Thr Thr Ile Trp Gln Gln Met Glu Glu Leu Gly Met Ala
189           145             150             155             160
190 Pro Ala Leu Gln Pro Thr Gln Gly Ala Met Pro Ala Phe Ala Ser Ala
191           165             170             175
192 Phe Gln Arg Arg Ala Gly Gly Val Leu Val Ala Ser His Leu Gln Ser
193           180             185             190
194 Phe Leu Glu Val Ser Tyr Arg Val Leu Arg His Leu Ala Gln Pro
195           195             200             205

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197 <210> SEQ ID NO: 7

198 <211> LENGTH: 696

199 <212> TYPE: DNA

200 <213> ORGANISM: Homo sapiens

202 <400> SEQUENCE: 7

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203 atgaaggaga gacgggcccc ccagccagtc gtggccagat gtaagctcgt tctggtcggg 60
204 gacgtgcagt gtgggaagac cgcgatgttg caagtgttag cgaaggattg ctatccagag 120
205 acctatgtgc ccaccgtgtt cgaaaattac acagcctgtt tggagacaga ggaacagagg 180
206 gtggagctta gtctctggga tacctcagga tctccctact acgataatgt ccgtccactc 240
207 tgctacagcg actcggatgc agtattacta tgttttgaca tcagccgtcc agagacagtg 300
208 gacagcgcac tcaagaagtg gaggacagaa atcctagatt attgtcccag caccgcggtt 360

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RAW SEQUENCE LISTING

DATE: 10/10/2006

PATENT APPLICATION: US/10/594,266

TIME: 14:53:51

Input Set : N:\AMC\594266.txt

Output Set: N:\CRF4\10102006\J594266.raw

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209 ttgctcattg gctgcaagac agacctgcga acagacctga gtactctgat ggagctgtcc 420
210 caccagaagc aggcgcccac ctcctatgag caggggtgtg caatagcaaa gcagctgggt 480
211 gcagaaatct acctggaagg ctcagctttc acctcagaaa agagcatcca cagcatcttt 540
212 cggacggcat ccatgctgtg tctgaacaag cctagcccac tgccccagaa gagccctgtc 600
213 cgaagcctct ccaaacgact gctccacctc cccagtcgct ctgaactcat ctcttctacc 660
214 ttcaagaagg aaaaggccaa aagctgttcc attatg 696
216 <210> SEQ ID NO: 8
217 <211> LENGTH: 232
218 <212> TYPE: PRT
219 <213> ORGANISM: Homo sapiens
221 <400> SEQUENCE: 8
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223           5              10              15
224 Val Leu Val Gly Asp Val Gln Cys Gly Lys Thr Ala Met Leu Gln Val
225           20              25              30
226 Leu Ala Lys Asp Cys Tyr Pro Glu Thr Tyr Val Pro Thr Val Phe Glu
227           35              40              45
228 Asn Tyr Thr Ala Cys Leu Glu Thr Glu Glu Gln Arg Val Glu Leu Ser
229           50              55              60
230 Leu Trp Asp Thr Ser Gly Ser Pro Tyr Tyr Asp Asn Val Arg Pro Leu
231           65              70              75              80
232 Cys Tyr Ser Asp Ser Asp Ala Val Leu Leu Cys Phe Asp Ile Ser Arg
233           85              90              95
234 Pro Glu Thr Val Asp Ser Ala Leu Lys Lys Trp Arg Thr Glu Ile Leu
235           100             105             110
236 Asp Tyr Cys Pro Ser Thr Arg Val Leu Leu Ile Gly Cys Lys Thr Asp
237           115             120             125
238 Leu Arg Thr Asp Leu Ser Thr Leu Met Glu Leu Ser His Gln Lys Gln
239           130             135             140
240 Ala Pro Ile Ser Tyr Glu Gln Gly Cys Ala Ile Ala Lys Gln Leu Gly
241           145             150             155             160
242 Ala Glu Ile Tyr Leu Glu Gly Ser Ala Phe Thr Ser Glu Lys Ser Ile
243           165             170             175
244 His Ser Ile Phe Arg Thr Ala Ser Met Leu Cys Leu Asn Lys Pro Ser
245           180             185             190
246 Pro Leu Pro Gln Lys Ser Pro Val Arg Ser Leu Ser Lys Arg Leu Leu
247           195             200             205
248 His Leu Pro Ser Arg Ser Glu Leu Ile Ser Ser Thr Phe Lys Lys Glu
249           210             215             220
250 Lys Ala Lys Ser Cys Ser Ile Met
251           225             230
253 <210> SEQ ID NO: 9
254 <211> LENGTH: 744
255 <212> TYPE: DNA
256 <213> ORGANISM: Homo sapiens
258 <400> SEQUENCE: 9
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260 gacatggcag ccttcatgaa aggcgccgtg gagaagggcg aggagctctc ctgcgaagag 120
261 cgaaacctgc tctcagtagc ctataagaac gtggtgggcg gccagagggc tgcttgagg 180

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VERIFICATION SUMMARY

PATENT APPLICATION: US/10/594,266

DATE: 10/10/2006

TIME: 14:53:52

Input Set : N:\AMC\594266.txt

Output Set: N:\CRF4\10102006\J594266.raw

L:9 M:270 C: Current Application Number differs, Replaced Current Application No

L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date

Raw Sequence Listing before editing (for reference only)



IFWP

RAW SEQUENCE LISTING

DATE: 10/05/2006.

PATENT APPLICATION: US/10/594,266

TIME: 09:44:37

Input Set : E:\G06-005?SEQLIST.txt

Output Set: N:\CRF4\10052006\J594266.raw

3 <110> APPLICANT: Takeda Pharmaceutical Company Limited
 5 <120> TITLE OF INVENTION: PREVENTIVE/REMEDY FOR RESPIRATORY DISEASES
 7 <130> FILE REFERENCE: G06-0052
 C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/594,266
 C--> 9 <141> CURRENT FILING DATE: 2006-09-26
 9 <150> PRIOR APPLICATION NUMBER: JP2004-092064
 10 <151> PRIOR FILING DATE: 2004-03-26
 12 <160> NUMBER OF SEQ ID NOS: 73
 14 <210> SEQ ID NO: 1
 15 <211> LENGTH: 816
 16 <212> TYPE: DNA
 17 <213> ORGANISM: Homo sapiens
 19 <400> SEQUENCE: 1

20 atgagctgcc acaactgctc cgacccccag gtcctttgca gctccgggca gctgttctcg 60
 21 cagccccctct gggaccacct gaggagctgg gaggccctcc tacagtcgcc cttcttccc 120
 22 gtcactcttct ccatcaccac atacgtgggc ttttgctgc ccttcgtggc cctggatctc 180
 23 ctgtgctcct ggggtgcccgc cctgcggcgc tacaagatcc accctgactt ctgccatcc 240
 24 gcgcagcagc tgctacctg cctggggcag accctctacc agcatgtgat gtttgtgttc 300
 25 cccgtgacgc tgctgcattg ggcccgcagc ccggccctcc tgccccacga agctcccag 360
 26 ctgctcctgc tgctgcacca catctgttc tgctgtac tcttcgacat ggagttcttc 420
 27 gtgtggcacc tgctgcacca caagtgccc tggtgtacc gcaccttcca caaggtgcac 480
 28 caccagaact cgtcctcgtt cgcgtggca acgcagtata tgagcgtctg ggaactgttt 540
 29 tctttgggct tcttcgacat gatgaacgtc acactgctcg ggtgccacc gctcaccacc 600
 30 ctgaccttcc acgtggtaaa catctggctt tccgtggagg accactccg ctacaacttc 660
 31 ccttggtcca ctcacagact ggtgccttc ggtgggtacg ggggtgtggt gcaccacgac 720
 32 ctgcatcact ctcactttaa ctgcaacttc gctccgtact ttacacactg ggacaaaata 780
 33 ctgggaacgc tgcggactgc atctgtccca gcgcgg 816

35 <210> SEQ ID NO: 2
 36 <211> LENGTH: 272
 37 <212> TYPE: PRT
 38 <213> ORGANISM: Homo sapiens
 40 <400> SEQUENCE: 2

41 Met Ser Cys His Asn Cys Ser Asp Pro Gln Val Leu Cys Ser Ser Gly
 42 5 10 15
 43 Gln Leu Phe Leu Gln Pro Leu Trp Asp His Leu Arg Ser Trp Glu Ala
 44 20 25 30
 45 Leu Leu Gln Ser Pro Phe Phe Pro Val Ile Phe Ser Ile Thr Thr Tyr
 46 35 40 45
 47 Val Gly Phe Cys Leu Pro Phe Val Val Leu Asp Ile Leu Cys Ser Trp
 48 50 55 60
 49 Val Pro Ala Leu Arg Arg Tyr Lys Ile His Pro Asp Phe Ser Pro Ser
 50 65 70 75 80
 51 Ala Gln Gln Leu Leu Pro Cys Leu Gly Gln Thr Leu Tyr Gln His Val

Does Not Comply
 Corrected Diskette Needed

RAW SEQUENCE LISTING

DATE: 10/05/2006

PATENT APPLICATION: US/10/594,266

TIME: 09:44:37

Input Set : E:\G06-0052SEQLIST.txt

Output Set: N:\CRF4\10052006\J594266.raw

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52          85          90          95
53 Met Phe Val Phe Pro Val Thr Leu Leu His Trp Ala Arg Ser Pro Ala
54          100          105          110
55 Leu Leu Pro His Glu Ala Pro Glu Leu Leu Leu Leu His His Ile
56          115          120          125
57 Leu Phe Cys Leu Leu Leu Phe Asp Met Glu Phe Phe Val Trp His Leu
58          130          135          140
59 Leu His His Lys Val Pro Trp Leu Tyr Arg Thr Phe His Lys Val His
60 145          150          155          160
61 His Gln Asn Ser Ser Phe Ala Leu Ala Thr Gln Tyr Met Ser Val
62          165          170          175
63 Trp Glu Leu Phe Ser Leu Gly Phe Phe Asp Met Met Asn Val Thr Leu
64          180          185          190
65 Leu Gly Cys His Pro Leu Thr Thr Leu Thr Phe His Val Val Asn Ile
66          195          200          205
67 Trp Leu Ser Val Glu Asp His Ser Gly Tyr Asn Phe Pro Trp Ser Thr
68          210          215          220
69 His Arg Leu Val Pro Phe Gly Trp Tyr Gly Gly Val Val His His Asp
70 225          230          235          240
71 Leu His His Ser His Phe Asn Cys Asn Phe Ala Pro Tyr Phe Thr His
72          245          250          255
73 Trp Asp Lys Ile Leu Gly Thr Leu Arg Thr Ala Ser Val Pro Ala Arg
74          260          265          270

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76 <210> SEQ ID NO: 3

77 <211> LENGTH: 924

78 <212> TYPE: DNA

79 <213> ORGANISM: Homo sapience

81 <400> SEQUENCE: 3

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83 ctctcgtggc tgccgcatgg gggcgccctg tctctggccg aggcgagccg cgcaagtttc 120
84 ccgggaccct cagagttgca ctccgaagac tccagattcc gagagttgcy gaaacgctac 180
85 gaggacctgc taaccaggct gcgggccaac cagagctggg aagattcgaa caccgacctc 240
86 gtcccgggcc ctgcagtccg gatactcacg ccagaagtgc ggctgggatc cggcgggccac 300
87 ctgcacctgc gtatctctcg ggccgcccct cctgaggggc tccccgaggc ctcccgccct 360
88 caccgggctc tgttcgggtc gtccccgacg gcgtcaaggt cgtgggacgt gacacgaccg 420
89 ctgcggcgtc agctcagcct tgcaagacct caggcgcccc cgctgcacct gcgactgtcg 480
90 ccgcccgcgt cgcagtcgga ccaactgctg gcagaatctt cgtccgcacg gccccagctg 540
91 gagttgcact tgcggccgca agccgccagg gggcgccgca gagcgcgtgc gcgcaacggg 600
92 gaccactgtc cgctcgggcc cgggcgttgc tgccgtctgc acacggtccg cgcgtcgctg 660
93 gaagacctgg gctgggcca ttgggtgctg tcgccacggg aggtgcaagt gaccatgtgc 720
94 atcggcgctg gcccgagcca gttccgggcy gcaaacatgc acgcgcagat caagacgagc 780
95 ctgcaccgcc tgaagcccga cacggtgcca gcgccctgct gcgtgcccgc cagctacaat 840
96 cccatggtgc tcattcaaaa gaccgacacc ggggtgtcgc tccagacctg tgatgacttg 900
97 ttagccaaag actgccactg cata 924

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99 <210> SEQ ID NO: 4

100 <211> LENGTH: 308

101 <212> TYPE: PRT

102 <213> ORGANISM: Homo sapience

104 <400> SEQUENCE: 4

RAW SEQUENCE LISTING

DATE: 10/05/2006

PATENT APPLICATION: US/10/594,266

TIME: 09:44:37

Input Set : E:\G06-0052SEQLIST.txt

Output Set: N:\CRF4\10052006\J594266.raw

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105 Met Pro Gly Gln Glu Leu Arg Thr Leu Asn Gly Ser Gln Met Leu Leu
106           5           10           15
107 Val Leu Leu Val Leu Ser Trp Leu Pro His Gly Gly Ala Leu Ser Leu
108           20           25           30
109 Ala Glu Ala Ser Arg Ala Ser Phe Pro Gly Pro Ser Glu Leu His Ser
110           35           40           45
111 Glu Asp Ser Arg Phe Arg Glu Leu Arg Lys Arg Tyr Glu Asp Leu Leu
112           50           55           60
113 Thr Arg Leu Arg Ala Asn Gln Ser Trp Glu Asp Ser Asn Thr Asp Leu
114           65           70           75           80
115 Val Pro Ala Pro Ala Val Arg Ile Leu Thr Pro Glu Val Arg Leu Gly
116           85           90           95
117 Ser Gly Gly His Leu His Leu Arg Ile Ser Arg Ala Ala Leu Pro Glu
118           100          105          110
119 Gly Leu Pro Glu Ala Ser Arg Leu His Arg Ala Leu Phe Arg Leu Ser
120           115          120          125
121 Pro Thr Ala Ser Arg Ser Trp Asp Val Thr Arg Pro Leu Arg Arg Gln
122           130          135          140
123 Leu Ser Leu Ala Arg Pro Gln Ala Pro Ala Leu His Leu Arg Leu Ser
124 145           150           155           160
125 Pro Pro Pro Ser Gln Ser Asp Gln Leu Leu Ala Glu Ser Ser Ser Ala
126           165           170           175
127 Arg Pro Gln Leu Glu Leu His Leu Arg Pro Gln Ala Ala Arg Gly Arg
128           180           185           190
129 Arg Arg Ala Arg Ala Arg Asn Gly Asp His Cys Pro Leu Gly Pro Gly
130           195           200           205
131 Arg Cys Cys Arg Leu His Thr Val Arg Ala Ser Leu Glu Asp Leu Gly
132           210           215           220
133 Trp Ala Asp Trp Val Leu Ser Pro Arg Glu Val Gln Val Thr Met Cys
134 225           230           235           240
135 Ile Gly Ala Cys Pro Ser Gln Phe Arg Ala Ala Asn Met His Ala Gln
136           245           250           255
137 Ile Lys Thr Ser Leu His Arg Leu Lys Pro Asp Thr Val Pro Ala Pro
138           260           265           270
139 Cys Cys Val Pro Ala Ser Tyr Asn Pro Met Val Leu Ile Gln Lys Thr
140           275           280           285
141 Asp Thr Gly Val Ser Leu Gln Thr Tyr Asp Asp Leu Leu Ala Lys Asp
142           290           295           300
143 Cys His Cys Ile
144 305

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146 <210> SEQ ID NO: 5

147 <211> LENGTH: 621

148 <212> TYPE: DNA

149 <213> ORGANISM: Homo sapience

151 <400> SEQUENCE: 5

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152 atggctggac ctgccacca gagcccatg aagctgatgg ccctgcagct gctgctgtgg      60
153 cacagtgcac tctggacagt gcaggaagcc acccccctgg gccctgccag ctccctgccc      120
154 cagagcttcc tgctcaagtg cttagagcaa gtgaggaaga tccagggcga tggcgagcg      180
155 ctccaggaga agctggtgag tgagtgtgcc acctacaagc tgtgccaccc cgaggagctg      240

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RAW SEQUENCE LISTING

DATE: 10/05/2006

PATENT APPLICATION: US/10/594,266

TIME: 09:44:37

Input Set : E:\G06-0052SEQLIST.txt

Output Set: N:\CRF4\10052006\J594266.raw

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156 gtgctgctcg gacactctct gggcatcccc tgggctcccc tgagcagctg cccagccag 300
157 gccctgcagc tggcaggctg cttgagccaa ctccatagcg gccttttcct ctaccagggg 360
158 ctctgcagc ccttgaagg gatctcccc gagttgggtc ccaccttga cactgcag 420
159 ctggacgtcg ccgactttgc caccaccatc tggcagcaga tgaagaact gggaatggcc 480
160 cctgccctgc agccacca ggtgccatg ccggccttcg cctctgcttt ccagcgccgg 540
161 gcaggagggg tcctggttgc ctccatctg cagagcttcc tggaggtgtc gtaccgctt 600
162 ctacgccacc ttgccagcc c 621

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164 <210> SEQ ID NO: 6

165 <211> LENGTH: 207

166 <212> TYPE: PRT

167 <213> ORGANISM: Homo sapience

169 <400> SEQUENCE: 6

170 Met Ala Gly Pro Ala Thr Gln Ser Pro Met Lys Leu Met Ala Leu Gln

171 5 10 15

172 Leu Leu Leu Trp His Ser Ala Leu Trp Thr Val Gln Glu Ala Thr Pro

173 20 25 30

174 Leu Gly Pro Ala Ser Ser Leu Pro Gln Ser Phe Leu Leu Lys Cys Leu

175 35 40 45

176 Glu Gln Val Arg Lys Ile Gln Gly Asp Gly Ala Ala Leu Gln Glu Lys

177 50 55 60

178 Leu Val Ser Glu Cys Ala Thr Tyr Lys Leu Cys His Pro Glu Glu Leu

179 65 70 75 80

180 Val Leu Leu Gly His Ser Leu Gly Ile Pro Trp Ala Pro Leu Ser Ser

181 85 90 95

182 Cys Pro Ser Gln Ala Leu Gln Leu Ala Gly Cys Leu Ser Gln Leu His

183 100 105 110

184 Ser Gly Leu Phe Leu Tyr Gln Gly Leu Leu Gln Ala Leu Glu Gly Ile

185 115 120 125

186 Ser Pro Glu Leu Gly Pro Thr Leu Asp Thr Leu Gln Leu Asp Val Ala

187 130 135 140

188 Asp Phe Ala Thr Thr Ile Trp Gln Gln Met Glu Glu Leu Gly Met Ala

189 145 150 155 160

190 Pro Ala Leu Gln Pro Thr Gln Gly Ala Met Pro Ala Phe Ala Ser Ala

191 165 170 175

192 Phe Gln Arg Arg Ala Gly Gly Val Leu Val Ala Ser His Leu Gln Ser

193 180 185 190

194 Phe Leu Glu Val Ser Tyr Arg Val Leu Arg His Leu Ala Gln Pro

195 195 200 205

197 <210> SEQ ID NO: 7

198 <211> LENGTH: 696

199 <212> TYPE: DNA

200 <213> ORGANISM: Homo sapience

202 <400> SEQUENCE: 7

203 atgaaggaga gacgggcccc ccagccagtc gtggccagat gtaagctcgt tctggtcggg 60

204 gacgtgcagt gtgggaagac cgcgatgttg caagtgttag cgaaggattg ctatccagag 120

205 acctatgtgc ccaccgtgtt cgaaaattac acagcctgtt tggagacaga ggaacagagg 180

206 gtggagctta gtctctggga tacctcagga tctccctact acgataatgt ccgtccactc 240

207 tgctacagcg actcggatgc agtattacta tgttttgaca tcagccgtcc agagacagtg 300

208 gacagcgcac tcaagaagtg gaggacagaa atcctagatt attgtcccag caccgcgctt 360

RAW SEQUENCE LISTING

DATE: 10/05/2006

PATENT APPLICATION: US/10/594,266

TIME: 09:44:37

Input Set : E:\G06-0052SEQLIST.txt

Output Set: N:\CRF4\10052006\J594266.raw

209 ttgctcattg gctgcaagac agacctgcga acagacctga gtactctgat ggagctgtcc 420
 210 caccagaagc aggcgcccac ctcctatgag cagggttggt caatagcaaa gcagctgggt 480
 211 gcagaaatct acctggaagg ctcagctttc acctcagaaa agagcatcca cagcatcttt 540
 212 cggacggcat ccatgctgtg tctgaacaag cctagcccac tgccccagaa gagccctgtc 600
 213 cgaagcctct ccaaagcact gctccacctc cccagtcgct ctgaactcat ctcttctacc 660
 214 ttcaagaagg aaaaggccaa aagctgttcc attatg 696

216 <210> SEQ ID NO: 8

217 <211> LENGTH: 232

218 <212> TYPE: PRT

219 <213> ORGANISM: Homo sapience

221 <400> SEQUENCE: 8

222 Met Lys Glu Arg Arg Ala Pro Gln Pro Val Val Ala Arg Cys Lys Leu
 223 5 10 15

224 Val Leu Val Gly Asp Val Gln Cys Gly Lys Thr Ala Met Leu Gln Val
 225 20 25 30

226 Leu Ala Lys Asp Cys Tyr Pro Glu Thr Tyr Val Pro Thr Val Phe Glu
 227 35 40 45

228 Asn Tyr Thr Ala Cys Leu Glu Thr Glu Glu Gln Arg Val Glu Leu Ser
 229 50 55 60

230 Leu Trp Asp Thr Ser Gly Ser Pro Tyr Tyr Asp Asn Val Arg Pro Leu
 231 65 70 75 80

232 Cys Tyr Ser Asp Ser Asp Ala Val Leu Leu Cys Phe Asp Ile Ser Arg
 233 85 90 95

234 Pro Glu Thr Val Asp Ser Ala Leu Lys Lys Trp Arg Thr Glu Ile Leu
 235 100 105 110

236 Asp Tyr Cys Pro Ser Thr Arg Val Leu Leu Ile Gly Cys Lys Thr Asp
 237 115 120 125

238 Leu Arg Thr Asp Leu Ser Thr Leu Met Glu Leu Ser His Gln Lys Gln
 239 130 135 140

240 Ala Pro Ile Ser Tyr Glu Gln Gly Cys Ala Ile Ala Lys Gln Leu Gly
 241 145 150 155 160

242 Ala Glu Ile Tyr Leu Glu Gly Ser Ala Phe Thr Ser Glu Lys Ser Ile
 243 165 170 175

244 His Ser Ile Phe Arg Thr Ala Ser Met Leu Cys Leu Asn Lys Pro Ser
 245 180 185 190

246 Pro Leu Pro Gln Lys Ser Pro Val Arg Ser Leu Ser Lys Arg Leu Leu
 247 195 200 205

248 His Leu Pro Ser Arg Ser Glu Leu Ile Ser Ser Thr Phe Lys Lys Glu
 249 210 215 220

250 Lys Ala Lys Ser Cys Ser Ile Met

251 225 230

253 <210> SEQ ID NO: 9

254 <211> LENGTH: 744

255 <212> TYPE: DNA

256 <213> ORGANISM: Homo sapience

258 <400> SEQUENCE: 9

259 atggagagag ccagctctgat ccagaaggcc aagctggcag agcaggccga acgctatgag 60

260 gacatggcag ccttcattgaa aggcgccgtg gagaagggcg aggagctctc ctgcgaagag 120

261 cgaaacctgc tctcagtagc ctataagaac gtggtgggcy gccagagggc tgcttgagg 180

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/594,266

DATE: 10/05/2006

TIME: 09:44:38

Input Set : E:\G06-0052SEQLIST.txt

Output Set: N:\CRF4\10052006\J594266.raw

L:9 M:270 C: Current Application Number differs, Replaced Current Application No

L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date